Session Program

7–11 Dec 2026



26th Australian Institute of Physics Congress and the Australian and New Zealand Conference on Optics and Photonics

AIP QST: Quantum stochastic models & memory advantage

The University of Sydney , Belinda Hutchinson Building
Abercrombie St & Codrington St NSW 2008

Tuesday 8 December

14:30

AIP QST: Quantum stochastic models & memory advantage

Session |
Location: The University of Sydney , Belinda Hutchinson Building, Abercrombie St & Codrington St NSW 2008

14:30–14:45 **Memory-efficient quantum transducers for input-output decoding**

Speaker
Jianjun Chen

14:45–15:00

Using Randomness to Bound Memory in Quantum Stochastic Processes

Speaker
Derek Chang

15:00–15:15

Optical Stochstic Simulator for Demonstration of Unbounded Quantum Memory Advantage

Speaker
Brendan Wallis

15:15–15:30

Stochastic Physical Neural Networks with Single Photons and Spin Chains

Speaker
Mr Shiromal Kumara

15:30